

Notice of Allowability

Application No.

09/588,945

Examiner

Toan D Nguyen

Applicant(s)

BETTA ET AL.

Art Unit

2665

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/15/05.
2. ☒ The allowed claim(s) is/are 1, 3-7, 9-17, 19-23 are renumbered 1-20, respectively.
3. ☒ The drawings filed on 07 June 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date 4/15/05.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION

Examiner Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ms. Natalya Dvorson on April 15, 2005.

2. The application has been amended as follows:

IN THE CLAIMS:

In claim 1 lines 1-2, delete "A computer adapted to produce a telecommunication signal frame, said apparatus comprising:" and insert --- A computer is configured to produce a transmission frame, said computer comprising: ---.

In claim 1 lines 3-4, delete "adapted to enable the apparatus to perform the step of:" and insert --- is configured to enable the computer to perform the step of: ---.

In claim 1 line 5, delete "a transmission frame" and insert --- the transmission frame ---.

In claim 1 line 9, delete "a third byte" and insert --- the third byte ---.

In claim 1 line 12, delete "a first, a second and a third byte; and" and insert --- the first, the second and the third byte; and ---.

In claim 1 line 13, delete " a first byte and a second byte" and insert --- the first byte and the second byte ---.

In claim 1 line 15, delete "source node" and insert --- source node, wherein said Source Node Identification Extension bits and said Destination Node Identification Extension bits, each comprise two bits and said at least one bit indicating a change of the information is four in number. ---.

In claim 3, delete line 1 to line 3 and insert --- A computer is configured to produce a transmission frame, said computer comprising:

a processor, and a memory including software instruction is configured to enable the computer to perform the step of:

producing the transmission frame having a first, a second, and a third byte, wherein the transmission frame comprises:

a section overhead with a Regeneration Section OverHead (RSOH) and a Multiplex Section OverHead (MSOH), in which said MSOH comprises the third byte comprising at least one Source Node Identification Extension bit, at least one Destination Node Identification Extension bit and at least one bit indicating a change of the information in at least one of the first, the second and the third byte; and

said RSOH comprising the first byte and the second byte, said first byte comprising bits identifying the destination node and said second byte comprising bits identifying the source node,

wherein both said Source Node Identification Extension bits and said Destination Node Identification Extension bits are three bits and said bits indicating the information change are two in number. ---.

In claim 4 line 1, delete "to claim 2," and insert --- to claim 1, ---.

In claim 4 line 4, delete "an information change are first four ones." and insert --- the information change are first four bits. ---.

In claim 5 line 4, delete "an information change are first two bits." and insert --- the information change are first two bits. ---.

In claim 6 line 2, delete "the frame." and insert --- the transmission frame. ---.

In claim 7 lines 1-2, delete "A transmitter adapted to transmit information carried by a telecommunication signal frame, comprising:" and insert --- A transmitter is configured to transmit information carried by a transmission frame, comprising: ---.

In claim 7 line 4, delete "adapted" and insert ---is configured ---.

In claim 7 line 6, delete "a transmission frame" and insert --- the transmission frame ---.

In claim 7 line 10, delete "the MDOH" and insert ---the MSOH ---.

In claim 7 line 13, delete "second and third byte;" and insert --- said second and said third byte; ---.

In claim 7 line 15, delete "transmitting the produced frame." and insert --- transmitting the produced transmission frame,

wherein both said Source Node IDentification Extension bits and said Destination Node IDentification Extension bits are two in number and said bits indicating the information change are four in number. ---.

In claim 9, delete line 1 to line 3 and insert --- A transmitter is configured to transmit information carried by a transmission frame, comprising:

a processor, and

a memory including software instruction is configured to enable the transmitter to perform the step of:

producing the transmission frame having a first byte, a second byte, and a third byte, in which bits of the third byte of the MSOH are arranged in a way that at least one of said bits represents an Extension of Source Node IDentification and at least one of said bits represents an Extension of Destination Node IDentification and at least one of the remaining bits indicates an information change in said at least one of said first, said second and said third byte; and

transmitting the produced transmission frame,

wherein both said Source Node IDentification Extension bits and said Destination Node IDentification Extension bits are three in number and said bits indicating the information change are two in number. ---.

In claim 10 line 2, delete "the frame" and insert --- the transmission frame ---.

In claim 11 line 2, delete "the frame" and insert --- the transmission frame ---.

In claim 11 line 3, delete "an information" and insert --- the information ---.

In claim 12 line 2, delete "IDentification" and insert --- IDentification Extension ---.

In claim 13 line 2, delete "Source Node IDentification" and insert --- Extension of Source Node IDentification ---.

In claim 13 line 5, delete "byte)" and insert ---byte); ---.

In claim 16, delete line 1 to line 2 and insert --- A data transmission apparatus is configured to produce a transmission frame, said data transmission apparatus comprising: ---.

In claim 16 line 3, delete "adapted to enable the apparatus" and insert --- is configured to enable the data transmission apparatus ---.

In claim 16 line 5, delete "producing a transmission with a first, second and third byte," and insert --- producing the transmission with a first, a second and a third byte, ---

In claim 16 line 6, delete "a third byte" and insert --- the third byte ---.

In claim 16 line 7, delete "information contained in a first and a second byte of the frame, and" and insert --- information contained in the first and the second byte of the transmission frame, and ---.

In claim 16 line 10, delete "one of said first, second and third byte." and insert --- one of said first, said second and said third byte,

wherein said Source Node IDentification Extension bits and said Destination Node IDentification Extension bits, each comprise two bits and said at least one bit indicating a change of information are four in number. ---.

In claim 17 line 10, delete "said first, second and third byte." and insert --- said first, said second and said third byte,

wherein said Source Node IDentification Extension bits and said Destination Node IDentification Extension bits, each comprise two bits and said at least one bit indicating change of information are four in number. ---.

In claim 19, delete line 1-4 and insert --- A method of communicating between stations, comprising:

creating a transmission frame having a section overhead with a Regeneration Section OverHead (RSOH) and a Multiplex Section OverHead (MSOH); and

transmitting said created transmission frame from a first station to a second station,

wherein said RSOH comprising a first byte and a second byte, said first byte comprises bits identifying the destination node and said second byte comprising bits identifying the source node, and wherein said MSOH comprises a third byte comprising at least one Source Node Identification Extension bit, at least one Destination Node Identification Extension bit and at least one bit indicating a change of the information in said at least one of said first, said second and said third byte,

wherein both said Source Node Identification Extension bits and said Destination Node Identification Extension bits have three bits and said at least one bit indicating a change of information are two in number. ---.

In claim 20 line 2, delete "claim 18" and insert --- claim 17 ---.

In claim 20 line 3, delete "portion" and insert --- bits ---.

In claim 20 line 4, delete "portion has subsequent two bits and said information change portion has first four bits." and insert --- bits has subsequent two bits and said information change has first four bits. ---.

In claim 21 line 3, delete "portion" and insert --- bits ---.

In claim 21 line 4, delete "portion has subsequent three bits and said information change portion has first two bits." and insert --- bits has subsequent three bits and said information change has first two bits. ---.

In claim 22 line 3, delete "the frame." and insert --- the transmission frame. ---

In claim 23 line 5, delete "the frame" and insert --- the transmission frame ---.

In claim 23 line 6, delete "the frame" and insert --- the transmission frame ---.

In claim 23 line 8, delete "one of first, second and third byte." and insert --- one of the first, the second and the third byte,

wherein said Source Node Identification Extension bits and said Destination Node Identification Extension bits, each comprise two bits and said at least one bit indicating a change of information are four in number. ---.

Claims 2, 8 and 18 have been canceled.

The above examiner's amendment was made to clarify the claims.

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art fails to teach a combination of the steps of:

wherein said Source Node Identification Extension bits and said Destination Node Identification Extension bits, each comprise two bits and said at least one bit indicating a change of information are four in number, in the specific combination as recited in the claim.

Regarding claim 3, the prior art fails to teach a combination of the steps of:

wherein both said Source Node Identification Extension bits and said Destination Node Identification Extension bits are three bits and said bits indicating the information change are two in number, in the specific combination as recited in the claim.

Regarding claim 7, the prior art fails to teach a combination of the steps of:

wherein both said Source Node Identification Extension bits and said Destination Node Identification Extension bits are two in number and said bits indicating the

information change are four in number, in the specific combination as recited in the claim.

Regarding claim 9, the prior art fails to teach a combination of the steps of:
wherein both said Source Node Identification Extension bits and said Destination Node Identification Extension bits are three in number and said bits indicating the information change are two in number, in the specific combination as recited in the claim.

Regarding claim 16, the prior art fails to teach a combination of the steps of:
wherein said Source Node Identification Extension bits and said Destination Node Identification Extension bits, each comprise two bits and said at least one bit indicating a change of information are four in number, in the specific combination as recited in the claim.

Regarding claim 17, the prior art fails to teach a combination of the steps of:
wherein said Source Node Identification Extension bits and said Destination Node Identification Extension bits, each comprise two bits and said at least one bit indicating change of information are four in number, in the specific combination as recited in the claim.

Regarding claim 19, the prior art fails to teach a combination of the steps of:
wherein both said Source Node Identification Extension bits and said Destination Node Identification Extension bits have three bits and said at least one bit indicating a change of information are two in number, in the specific combination as recited in the claim.

Regarding claim 23, the prior art fails to teach a combination of the steps of:
wherein said Source Node Identification Extension bits and said Destination Node Identification Extension bits, each comprise two bits and said at least one bit indicating a change of information are four in number, in the specific combination as recited in the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D Nguyen whose telephone number is 571-272-3153. The examiner can normally be reached on M-F (7:00AM-4:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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PRIMARY EXAMINER